

REVERSE TRANSCRIPTASE INHIBITOR

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Abstract

PURPOSE: To obtain a reverse transcriptase inhibitor having a strong inhibitory effect on a reverse transcriptase produced by HIV and useful for improvement and prevention of AIDS and for suppression or retardation of the crisis after infection with AIDS virus.

CONSTITUTION: There is provided a reverse transcriptase inhibitor containing 2'-deoxy-L-ribonucleotide-5'-triphosphate, preferably 2'-deoxy-L-thymidine-5'-triphosphate as the active component and having a strong inhibitory effect on a reverse transcriptase produced by retrovirus. This compound can be produced by converting an L-nucleotide (an optical antipode of a natural type nucleotide) into its monophosphate, e.g. in the presence of phosphorus oxychloride and subsequently synthesizing its corresponding 5'-triphosphate compound therefrom, e.g. according to phosphorimidazolidate method. This compound is also useful as a reagent for studies in the fields of biochemistry, genetic engineering etc.

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